

Serial Number: 09/622,745CRF Processing Date: 6/12/2001
Edited by: A
Verified by: KW (STIC staff)**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was wrapped down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings us _____ an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/622,745

DATE: 06/12/2001

TIME: 11:50:04

Input Set : A:\es.txt

Output Set: N:\CRF3\06122001\I622745.raw

Does Not Comply
Corrected Diskette Needed

6 <110> APPLICANT: AstraZeneca AB
 8 <120> TITLE OF INVENTION: New methods
 10 <130> FILE REFERENCE: H 2174-1 WO
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/622,745
 C--> 13 <141> CURRENT FILING DATE: 2000-08-22
 15 <160> NUMBER OF SEQ ID NOS: 2
 17 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

115 <210> SEQ ID NO: 2
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Output Set: N:\CRF3\06122001\I622745.raw

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/622,745

DATE: 06/12/2001

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Output Set: N:\CRF3\06122001\I622745.raw

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E--> 233 (4)

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/622,745

DATE: 06/12/2001

TIME: 11:50:05

Input Set : A:\es.txt

Output Set: N:\CRF3\06122001\I622745.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:233 M:254 E: No. of Bases conflict, LENGTH:Input:4 Counted:4594 SEQ:2

Namnlös

S.
 CC Where differences are found these are annotated as variations
 CC together with a note of the overlapping clone name. Note that th
 e
 CC variation annotation may not be found in the sequence submission
 CC corresponding to the overlapping clone, as we submit sequences
 CC with only a small overlap as described above.
 CC This sequence is the entire insert of clone 271M21.
 CC This sequence has been finished according to sequence map criter
 ia as
 CC follows. An attempt is made to resolve all sequencing problems,
 such
 CC as compressions and repeats, but not necessarily within known
 CC annotated human repeat sequence elements (e.g. Alu). Where the
 CC sequence is ambiguous, there is an annotation using the "unsure"
 CC feature key.
 CC This sequence was generated from part of bacterial clone contigs
 of
 CC human chromosome 6, constructed in collaboration by the Sanger C
 entre
 CC chromosome 6 mapping group and Armin Volz & Andreas Ziegler. Fur
 ther
 CC information can be found at <http://www.sanger.ac.uk/HGP/Chr6/>
 CC 271M21 is from the library RPC11 constructed at the Roswell Park
 . . .

SCORES Init1: 6935 Initn: 15224 Opt: 19389 z-score: 3034.4 E(
): 0
 99.7% identity in 3909 bp overlap

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GCAG					
Hs271m21	CCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGG				
GCAG					
	1580	1590	1600	1610	1620 1630
	40	50	60	70	80
90					
Pagapr1.Dna	GATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAAACTAAT				
GAAA					

Namnlös

Hs271m21		GATGGTTCTGTGGTGCAGTTTAAAGATTAAGAGGCATACACCACTTAGTAAACTAAT				
GAAA						
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GCAA						
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210						
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GTGT						
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GTGT						
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ACTC						
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ACTC						
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330						
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Namnlös

CACA

1880 1890 1900 1910 1920 1930

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390

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|||||

|||||

Hs271m21 TCCTGACTACTACCGTATAGTTTTCTCTATTCTTTCATTTCCCCCTTCCCCATTCC
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450

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CTAA

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509

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ATTC

2060 2070 2080 2090 2100 2110

510 520 530 540 550 560

569

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|||||

Hs271m21 TGTGAAAATACCCCCTTCTCCATTAGTGGCATGCTCATTCAGCTCTTATCTTTAT
ATTC

2120 2130 2140 2150 2160 2170

Namnlös

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AAAA						
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	690	700	710	720	730	740
749						
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TTTA						
Hs271m21	CAAGGACAATTTTATAACTTTTTTGTACTTAGCTGTTACATGCAGAGCAATCTGTC					
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809						
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TCAA						
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TCAA	2360 2370 2380 2390 2400 2410					
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Namnlös

Pagapr1.Dna GCGTCTTGTTGTTTAAATAAACTTCTTGTTT-AAAAAAAAAAAAAAGTAAAAAAGAA
AAGT

|||||

|||||
Hs271m21
AAGT

GCGTCTTGTTGTTTAAATAAACTTCTTGTTTAAAAAAAAAAAAAAGTAAAAAAGAA

2420 2430 2440 2450 2460 2470

870 880 890 900 910 920

Pagapr1.Dna TATGCAACAATTAATGGCCCAGAGGCAATCCTTGTTAACATTTTGATGCATCTTTT
AGCT

|||||

|||||
Hs271m21
AGCT

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2480 2490 2500 2510 2520 2530

930 940 950 960 970 980

Pagapr1.Dna G-TTTTTTTTTTTTTTTTTTTTTTTTGGACTGAGTTTGACTCTTGTCACCCAGGCTGA
AGTG

| |||||

|||||
Hs271m21
AGTG

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2540 2550 2560 2570 2580 2590

990 1000 1010 1020 1030 1040

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TTCT

|||||

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Hs271m21
TTCT

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1050 1060 1070 1080 1090 1100

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AATT

Namnlös

||||
Hs271m21
AATT

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

CCTGCCTCAGCCTCCTGAGTAGCTAGGATTACGGGCATGCACCACCATGCCTGGCT

2660 2670 2680 2690 2700 2710

1110 1120 1130 1140 1150 1160

Pagaprl.Dna
CCAA

TTGTATTTTATAGTAGAGTTGGGGCTTCTCCACACTGGTCAGGCTGGTCTCGAACTC

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

||||
Hs271m21
CCAA

TTGTATTTTATAGTAGAGTTGGGGCTTCTCCACACTGGTCAGGCTGGTCTCGAACTC

2720 2730 2740 2750 2760 2770

1170 1180 1190 1200 1210 1220

Pagaprl.Dna
AGAT

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||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

||||

Hs271m21
AGAT

CCTCAGGTGATAAGGGAAGGGGCACTATTGACATTTATGGTTGGGGCAGAGGTGTA

2780 2790 2800 2810 2820 2830

1230 1240 1250 1260 1270 1280

Pagaprl.Dna
AGTC

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||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

||||
Hs271m21
AGTC

ATTCTTCAAAGCACTACCTACATGTTGAAGAATTGTTTCCTCACCCAGATTCTCAAA

2840 2850 2860 2870 2880 2890

1290 1300 1310 1320 1330 1340

Pagaprl.Dna
ATAC

CCCCAGGACATTACGCTAGTGAAAACCTGTGTTTAATTATCTGAGCCTATAACTTA

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

||||

Namnlös

Hs271m21 ATAC	CCCCAGGACATTACG	TAGTGAAAACCTGTG	TTTAATTATCTGAGC	CTATAACTTA		
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Hs271m21 TG TG	AGTTTTAAAATTTTT	TTTTTAAATATACAG	TGAACCTTCTAGGA	ATGCAATTATAGT		
	2960	2970	2980	2990	3000	3010
	1410	1420	1430	1440	1450	1460
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Hs271m21 TCAC	TGTAAAATTAGGGAAA	ATTAACCTTGCTACCA	AAGAGTTGTTCAACAT	TTTGT TAAA		
	3020	3030	3040	3050	3060	3070
	1470	1480	1490	1500	1510	1520
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Hs271m21 GCCT	TTCATTGATGGCAACAT	GCTGGAGGTAGTTGAG	TCACCAACTCAGCACCT	GGATCA		
	3080	3090	3100	3110	3120	3130
	1530	1540	1550	1560	1570	1580
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Hs271m21 CTCC	GTGTTGGTAGCAGTTTC	ATCCCCGTGGTTCTGT	GAATAGGTGGAAGCAT	CTGCTTA		
	3140	3150	3160	3170	3180	3190

Namnlös

	1590	1600	1610	1620	1630	1640
Pagapr1.Dna	ATCAGGACTTCTAGGGTAGTCGGGCCTTGGCACTCACACATTAAAATACTGTTTAT					
GTTA						
Hs271m21	ATCAGGACTTCTAGGGTAGTCGGGCCTTGGCACTCACACATTAAAATACTGTTTAT					
GTTA						
	3200	3210	3220	3230	3240	3250
	1650	1660	1670	1680	1690	1700
Pagapr1.Dna	TTTTATTGCAAGTTACTTTTCTTTCATTTCCCCTTTACGTTACAGAAAGGGAAGCA					
TTTT						
Hs271m21	TTTTATTGCAAGTTACTTTTCTTTCATTTCCCCTTTACGTTACAGAAAGGGAAGCA					
TTTT						
	3260	3270	3280	3290	3300	3310
	1710	1720	1730	1740	1750	1760
Pagapr1.Dna	GCTTTCTGTTTAAAGTTGTGTATGTAGGTAGGTTATATCATCTAWGACTTTCTCTC					
CCTC						
Hs271m21	GCTTTCTGTTTAAAGTTGTGTATGTAGGTAGGTTATATCATCTATGACTTTCTCTC					
CCTC						
	3320	3330	3340	3350	3360	3370
	1770	1780	1790	1800	1810	1820
Pagapr1.Dna	CTTCCCTTTCTTTTTGTTTGAGATGGAGTCTTGCTCTGTCACCCAGGCTGGAGTGC					
AGTG						
Hs271m21	CTTCCCTTTCTTTTTGTTTGAGATGGAGTCTTGCTCTGTCACCCAGGCTGGAGTGC					
AGTG						
	3380	3390	3400	3410	3420	3430
	1830	1840	1850	1860	1870	1880

Namnlös

Pagapr1.Dna	GTGCGATCTTGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCGATTCTGGTGTC
TCAG	
Hs271m21	GTGCGATCTTGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCGATTCTGGTGTC
TCAG	
	3440 3450 3460 3470 3480 3490
	1890 1900 1910 1920 1930 1940
Pagapr1.Dna	CTGGGATTACAGGCGCACACCATCACACCACGCTAATTTTCTATTTTCTAGTAGAG
ATGG	
Hs271m21	CTGGGATTACAGGCGCACACCATCACACCACGCTAATTTTCTATTTTCTAGTAGAG
ATGG	
	3500 3510 3520 3530 3540 3550
	1950 1960 1970 1980 1990 2000
Pagapr1.Dna	GGTTTCGCCATGCTGGCCAGGCCAGGCTGGTCTCAAACCTCCTGAGCTCAAGTGATC
AGTC	
Hs271m21	GGTTTCGCCATGCTGGCCAGGCCAGGCTGGTCTCAAACCTCCTGAGCTCAAGTGATC
AGTC	
	3560 3570 3580 3590 3600 3610
	2010 2020 2030 2040 2050 2060
Pagapr1.Dna	CGCCTCGGCCTCCCAAAGTTCTGGGATTTTCAGGCGTGAGCCTCATCTATGAATCTC
AATT	
Hs271m21	CGCCTCGGCCTCCCAAAGTTCTGGGATTTTCAGGCGTGAGCCTCATCTATGAATCTC
AATT	
	3620 3630 3640 3650 3660 3670
	2070 2080 2090 2100 2110 2120
Pagapr1.Dna	TAGGACAGTAAAAGTGTCATTACAAAAATATTTATTGTAAAAAAGGGTTGGAGGTT

Namnlös

GAGA

||||

Hs271m21

GAGA

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

TAGGACAGTAAAAGTGTCTATTAC-AAAATATTTATTGTAAAAAAGGGTTGGAGGTT

3680 3690 3700 3710 3720 373

0

2130 2140 2150 2160 2170 2180

Pagaprl.Dna

AGGA

ATCTCAATTCTAGTCAGTCTCTCAGTGTGTTGGTTTCTTCCTACCATTTTCCCCCT

||||

Hs271m21

AGGA

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

ATCTCAATTCTAGTCAGTCTCTCAGTGTGTTGGTTTCTTCCTACCATTTTCCCCCT

3740 3750 3760 3770 3780 379

0

2190 2200 2210 2220 2230 2240

Pagaprl.Dna

CTCC

CCAGCCAGAAAGCAGCTTTTTTTTGTCCCCCAACAAGGAGCCCACTGTTTCCT

||||

Hs271m21

CTCC

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

CCAGCCAGAAAGCAGCTTTTTTTTGTCCCCCAACAAGGAGCCCACTGTTTCCT

3800 3810 3820 3830 3840 385

0

2250 2260 2270 2280 2290 2300

Pagaprl.Dna

ACAC

CAGCCCAAACCTCAGGCCTACGAACAACAACAGCAC--TACACACACACACACACAC

||||

Hs271m21

ACAC

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

CAGCCCAAACCTCAGGCCTACGAACAACAACAGCACAAACACACACACACACACACAC

3860 3870 3880 3890 3900 391

0

2310 2320 2330 2340 2350 2360

Pagaprl.Dna

GTCA

ACACACACACACACACACCCCTCCACTTCAAGGTATAGCCAAGAGCTTCTGGAGCC

||||

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Namnlös

Hs271m21
GTCA
0

ACACACACACACACACACCCCTCCACTTCAAGGTATAGCCAAGAGCTTCTGGAGCC

3920 3930 3940 3950 3960 397

2370 2380 2390 2400 2410 2420

Pagapr1.Dna
CTGT

AAAAGGTCTGTACCTGCTGTCTTTAGAGCTTCCAGTTTGCCCTTGGTCAAGAAATA

|||||

|||||
Hs271m21
CTGT
0

AAAAGGTCTGTACCTGCTGTCTTTAGAGCTTCCAGTTTGCCCTTGGTCAAGAAATA

3980 3990 4000 4010 4020 403

2430 2440 2450 2460 2470 2480

Pagapr1.Dna
TTCT

TTGCTAGGCTCTGCTGGAGTACATCAGGTAATACTGGCTTCTAAACCACCCTGAGG

|||||

|||||
Hs271m21
TTCT
0

TTGCTAGGCTCTGCTGGAGTACATCAGGTAATACTGGCTTCTAAACCACCCTGAGG

4040 4050 4060 4070 4080 409

2490 2500 2510 2520 2530 2540

Pagapr1.Dna
CCCT

TTTCTCTTGTCTTTTACTCCCTTCGTAATTCAATTTCTCTCCTTGATGTCCCCCT

|||||

|||||
Hs271m21
CCCT
0

TTTCTCTTGTCTTTTACTCCCTTCGTAATTCAATTTCTCTCCTTGATGTCCCCCT

4100 4110 4120 4130 4140 415

2550 2560 2570 2580 2590 2600

Pagapr1.Dna
CAAT

GTTTTGTTTTTTGCCTCCAATCCGTTCTGCGCGTTCCCTGCAGAGCAGGCGAGTAG

|||||

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Hs271m21
CAAT

GTTTTGTTTTTTGCCTCCAATCCGTTCTGCGCGTTCCCTGCAGAGCAGGCGAGTAG

4160 4170 4180 4190 4200 421

Namnlös

0

	2610	2620	2630	2640	2650	2660
Pagapr1.Dna	GCTGCTGGACCATGGAGCTGCTCTAGTCTCCCAGAAATCTCTTCTACACCCAACCC					
TTCT						
Hs271m21	GCTGCTGGACCATGGAGCTGCTCTAGTCTCCCAGAAATCTCTTCTACACCCAACCC					
TTCT	4220	4230	4240	4250	4260	427

0

	2670	2680	2690	2700	2710	2720
Pagapr1.Dna	TGC GCTTAGGTGGTCCTCAGTCCCCCTCCCCACCTCCTTCTGACCCAGGCTTCTT					
TCTC						
Hs271m21	TGC GCTTAGGTGGTCCTCAGTCCCCCTCCCCACCTCCTTCTGACCCAGGCTTCTT					
TCTC	4280	4290	4300	4310	4320	433

0

	2730	2740	2750	2760	2770	2780
Pagapr1.Dna	GCCCTCCGGTCGCAGTTCTCCTGGGCATCTGCCTCTGCCTCTCTCCTCTCACCCGG					
ATCT						
Hs271m21	GCCCTCCGGTCGCAGTTCTCCTGGGCATCTGCCTCTGCCTCTCTCCTCTCACCCGG					
ATCT	4340	4350	4360	4370	4380	439

0

	2790	2800	2810	2820	2830	2840
Pagapr1.Dna	AGGGCTGCCTTCTCTTTGTGCAGCCGTCTTCTCCACCTTCATCCCAGACTCCCTG					
TCTC						
Hs271m21	AGGGCTGCCTTCTCTTTGTGCAGCCGTCTTCTCCACCTTCATCCCAGACTCCCTG					
TCTC	4400	4410	4420	4430	4440	445

0

		2850	2860	Namnlös 2870	2880	2890	2900
Pagapr1.Dna	TTGT	AGCGCCAGCTCCTCTGCCTTTGGCTCGGGTTCCTCTCCCCACCCCAGCTTCCAG					
Hs271m21	TTGT	AGCGCCAGCTCCTCTGCCTTTGGCTCGGGTTCCTCTCCCCACCCCAGCTTCCAG					
0		4460	4470	4480	4490	4500	451
		2910	2920	2930	2940	2950	2960
Pagapr1.Dna	AGGG	TTGGCCCGCAGGTCCCTCGGCAGTGACCGGCGCCCCCGACGAGTGCGTGTGCACC					
Hs271m21	AGGG	TTGGCCCGCAGGTCCCTCGGCAGTGACCGGCGCCCCCGACGAGTGCGTGTGCACC					
0		4520	4530	4540	4550	4560	457
		2970	2980	2990	3000	3010	3020
Pagapr1.Dna	GCTG	CACCTCCCTCTCCCCACCTCTCAGCCCCGCGCCTCTCCACCGCCCGCCCCACCGC					
Hs271m21	GCTG	CACCTCCCTCTCCCCACCTCTCAGCCCCGCGCCTCTCCACCGCCCGCCCCACCGC					
0		4580	4590	4600	4610	4620	463
		3030	3040	3050	3060	3070	3080
Pagapr1.Dna	GAGG	TGGGCGGTCCAGGGCGGGGCTGGGATCCGGGGCGGCTCCCGGGGCTCGGGTTGTGG					
Hs271m21	GAGG	TGGGCGGTCCAGGGCGGGGCTGGGATCCGGGGCGGCTCCCGGGGCTCGGGTTGTGG					
0		4640	4650	4660	4670	4680	469
		3090	3100	3110	3120	3130	3140
Pagapr1.Dna		CGCCCTCTCCCCGGTCTTCCCCTCTCTTCCCCCGCCCTGCCTTCCCTTGCACCCT					

Namnlös

CCTT

||||

Hs271m21

CCTT

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

CGCCCTCTCCCCGGTCTTCCCCTCTCTTCCCCCGCCCTGCCTTCCCTTGACCCCT

4700 4710 4720 4730 4740 475

0

3150 3160 3170 3180 3190 3200

Pagapr1.Dna

CTCC

CTTCCCTCCGCCCCGGGAGCTCTCCCTGGTCCCCGGCGCCGCCTCCTTCCCTCCCGG

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

||||

Hs271m21

CTCC

CTTCCCTCCGCCCCGGGAGCTCTCCCTGGTCCCCGGCGCCGCCTCCTTCCCTCCCGG

4760 4770 4780 4790 4800 481

0

3210 3220 3230 3240 3250 3260

Pagapr1.Dna

TTTG

CCGCTCCCCGCTCCCGTGGCTGCCGCCGCCCCGGGGAAGAAGAGACAGGGGTGGGG

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

||||

Hs271m21

TTTG

CCGCTCCCCGCTCCCGTGGCTGCCGCCGCCCCGGGGAAGAAGAGACAGGGGTGGGG

4820 4830 4840 4850 4860 487

0

3270 3280 3290 3300 3310 3320

Pagapr1.Dna

GGAG

GGGGAAGCGAGAGAGGAGGGGAGAGACCCTGGCCAGGCTGGAGCCTGGATTTCGAGG

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

||||

Hs271m21

GGAG

GGGGAAGCGAGAGAGGAGGGGAGAGACCCTGGCCAGGCTGGAGCCTGGATTTCGAGG

4880 4890 4900 4910 4920 493

0

3330 3340 3350 3360 3370 3380

Pagapr1.Dna

GGCC

GAGGGACGGGAGGAGGAGAAAGGTGGAGGAGAAGGGAGGGGGAGCGGGGAGGAGC

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

||||

Namnlös

Hs271m21 GGCC	GAGGGACGGGAGGAGGAGAAAGGTGGAGGAGAAGGGAGGGGGAGCGGGGAGGAGC
0	4940 4950 4960 4970 4980 499
	3390 3400 3410 3420 3430 3440
Pagapr1.Dna TAAG	GGGCCTGGGGCCTTGAGGCCCGGGGAGAGCCGGGGAGCCGGGCCCCGCGCGCCGAGG
Hs271m21 TAAG	GGGCCTGGGGCCTTGAGGCCCGGGGAGAGCCGGGGAGCCGGGCCCCGCGCGCCGAGG
0	5000 5010 5020 5030 5040 505
	3450 3460 3470 3480 3490 3500
Pagapr1.Dna GGG	AGCCAGGGCCCCGGGTTAGCAGGGCTCGGAGAGGGGGCGCGCGGCGTGGTGGGGGA
Hs271m21 GGG	AGCCAGGGCCCCGGGTTAGCAGGGCTCGGAGAGGGGGCGCGCGGCGTGGTGGGGGA
0	5060 5070 5080 5090 5100 511
	3510 3520 3530 3540 3550 3560
Pagapr1.Dna GGG	GCAGTGGGCGCAGGGCCCAGCTGGGGGAAGCGGGGCTGGGGGAGAGGAGGAACCGC
Hs271m21 GGG	GCAGTGGGCGCAGGGCCCAGCTGGGGGAAGCGGGGCTGGGGGAGAGGAGGAACCGC
0	5120 5130 5140 5150 5160 517
	3570 3580 3590 3600 3610 3620
Pagapr1.Dna CTGC	ATGGAATCGGGGAGCGCTGAGGCGGCCGATGCCGGGAGCGTGGGTAAAGCCAGGCTT
Hs271m21 CTGC	ATGGAATCGGGGAGCGCTGAGGCGGCCGATGCCGGGAGCGTGGGTAAAGCCAGGCTT

		Namnlös					
		5180	5190	5200	5210	5220	523
0							
		3630	3640	3650	3660	3670	3680
Pagapr1.Dna	GAGCCGCGGGGGCCGGGGGAGAGGAGGTGGTGAGAGGTGGAGT-CCGGGAGGGTTG						
GGGG							
Hs271m21	GAGCCGCGGGGGCCGGGGGAGAGGAGGTGGTGAGAGGTGGAGTCCCGGGAGGGTTG						
GGGG							
0		5240	5250	5260	5270	5280	529
		3690	3700	3710	3720	3730	3740
Pagapr1.Dna	CCGAGGGAGGCAGGAGGAGGGTGGGGACAGGCTTTCTCTCCTCCTCTCCCCCACC						
CCGC							
Hs271m21	CCGAGGGAGGCAGGAGGAGGGTGGGGACAGGCTTTCTCTCCTCCTCTCCCCCACC						
CCGC							
0		5300	5310	5320	5330	5340	535
		3750	3760	3770	3780	3790	3800
Pagapr1.Dna	GCGGGGCTCCGCCCCCGCCTCCTCCGCGGGGCGCTCTCTTGGTCCCCAGGCTGAGC						
CCGG							
Hs271m21	GCGGGGCTCCGCCCCCGCCTCCTCCGCGGGGCGCTCTCTTGGTCCCCAGGCTGAGC						
CCGG							
0		5360	5370	5380	5390	5400	541
		3810	3820	3830	3840	3850	3860
Pagapr1.Dna	TCGGAGCCTGCGAGGCAACCGGCAAGAGGTCGAGTAGTCTCCGGGTGCGGGCCGCG						
CCGG							
Hs271m21	TCGGAGCCTGCGAGGCAACCGGCAAGAGGTCGAGTAGTCTCCGGGTGCGGGCCGCG						
CCGG							
0		5420	5430	5440	5450	5460	547

Namnlös

3870 3880 3890 3900

Pagapr1.Dna CGGGGCTCGGTCCAGTCCTCATGGCCGCCTCTCACTTAG

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Hs271m21
ACTG

CGGGGCTCGGTCCAGTCCTCATGGCCGCCTCTCACTTAGATGTTGCTGCTGCTGCT

5480 5490 5500 5510 5520 553

0

Hs271m21
CTCA

GCGCCACTCTTCCTCCGCCCCCGGGCGCGGGCGGGGCGCAGACCCCCAACGCCAC

5540 5550 5560 5570 5580 559

0

Namnlös

CC During sequence assembly data is compared from overlapping clone
 S.
 CC Where differences are found these are annotated as variations
 CC together with a note of the overlapping clone name. Note that th
 e
 CC variation annotation may not be found in the sequence submission
 CC corresponding to the overlapping clone, as we submit sequences
 CC with only a small overlap as described above.
 CC This sequence is the entire insert of clone 271M21.
 CC This sequence has been finished according to sequence map criter
 ia as
 CC follows. An attempt is made to resolve all sequencing problems,
 such
 CC as compressions and repeats, but not necessarily within known
 CC annotated human repeat sequence elements (e.g. Alu). Where the
 CC sequence is ambiguous, there is an annotation using the "unsure"
 CC feature key.
 CC This sequence was generated from part of bacterial clone contigs
 of
 CC human chromosome 6, constructed in collaboration by the Sanger C
 entre
 CC chromosome 6 mapping group and Armin Volz & Andreas Ziegler. Fur
 ther
 CC information can be found at <http://www.sanger.ac.uk/HGP/Chr6/>
 CC 271M21 is from the library RPCI1 constructed at the Roswell Park
 . . .

SCORES Init1: 22943 Initn: 22943 Opt: 22943 z-score: 10976.2 E
 (): 0

99.9% identity in 4594 bp overlap

				10	20	
30						
Pagapr2.Dna				ATGTTGCTGCTGCTGCTACTGGCGCC		
ACTC						
Hs271m21	GTCCAGTCCTCATGGCCGCCTCTCACTTAGATGTTGCTGCTGCTGCTACTGGCGCC					
ACTC						
	5490	5500	5510	5520	5530	55
40						
	40	50	60	70	80	
90						
Pagapr2.Dna	TTCCTCCGCCCCCGGGCGCGGGCGGGCGCAGACCCCCAACGCCACCTCAGAAGG					
TGCA						

Namnlös

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|||||
Hs271m21  TTCCTCCGCCCCCGGGCGCGGGCGGGGCGCAGACCCCCAACGCCACCTCAGAAGG
TGCA
          5550      5560      5570      5580      5590      56
00

          100      110      120      130      140
150
Pagapr2.Dna TCCTTCTTCGACGACCTCCGGGCCCTCCTTCGCTCCACTTCCCTTTCCCTGCATCTC
CTCA
|||||
Hs271m21  TCCTTCTTCGACGACCTCCGGGCCCTCCTTCGCTCCACTTCCCTTTCCCTGCATCTC
CTCA
          5610      5620      5630      5640      5650      56
60

          160      170      180      190      200
210
Pagapr2.Dna TTTCTGGTCCTCATCACTATCCCATCAGTCCCACATATCATCCCGGTCTGGCAACC
CCTT
|||||
Hs271m21  TTTCTGGTCCTCATCACTATCCCATCAGTCCCACATATCATCCCGGTCTGGCAACC
CCTT
          5670      5680      5690      5700      5710      57
20

          220      230      240      250      260
270
Pagapr2.Dna CTGCTCGGCCCCGACTTTACTACTGCTGACCTCCTTCTGTCACCCCACGTTACTATC
CAGC
|||||
Hs271m21  CTGCTCGGCCCCGACTTTACTACTGCTGACCTCCTTCTGTCACCCCACGTTACTATC
CAGC
          5730      5740      5750      5760      5770      57
80

          280      290      300      310      320
330
Pagapr2.Dna ACCTCTTTTCTCTGCCCCACATTGCTACACTATAACCACCTTCCTGTGCATTTTCTCC
GCCT
|||||

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Namnlös

Hs271m21	ACCTCTTTTCTCTGCCCACATTGCTACACTATAACCACCTTCCTGTGCATTTTCTCC
GCCT	
	5790 5800 5810 5820 5830 58
40	

	340 350 360 370 380
390	
Pagapr2.Dna	CAATCCCCTTTCCCAGCCCCACATTACTACCTCAATTACTCCCTTTTCTTGGTCCC
ACTT	

Hs271m21	CAATCCCCTTTCCCAGCCCCACATTACTACCTCAATTACTCCCTTTTCTTGGTCCC
ACTT	
	5850 5860 5870 5880 5890 59
00	

	400 410 420 430 440
450	
Pagapr2.Dna	TGCTGTCCAGATGATCTTATTAGCCTCCCTTTATCCTCCTATCCTAATTCAACTGG
AATA	

Hs271m21	TGCTGTCCAGATGATCTTATTAGCCTCCCTTTATCCTCCTATCCTAATTCAACTCG
AATA	
	5910 5920 5930 5940 5950 59
60	

	460 470 480 490 500
510	
Pagapr2.Dna	TCCTCATTTAGCCTTTTTTTTTTAAAGAAAAGCTCCACCCACATATCATACCCTTCA
TGAT	

Hs271m21	TCCTCATTTAGCCTTTTTTTTTTAAAGAAAAGCTCCACCCACATATCATACCCTTCA
TGAT	
	5970 5980 5990 6000 6010 60
20	

	520 530 540 550 560
570	
Pagapr2.Dna	TTCTTAATTACTTTTCTTTCTTACCTCCACCCAGCACCCCTTCCCTCCCCACTTGTG
GGTT	

Hs271m21	TTCTTAATTACTTTTCTTTCTTACCTCCACCCAGCACCCCTTCCCTCCCCACTTGTG
GGTT	
	6030 6040 6050 6060 6070 60

Namnlös

80		580	590	600	610	620
630	Pagapr2.Dna	CTCTCATCAGCTTTAACCCCTGGCCCTTTACTCTCTGTCCTTTAGCCAGGGGATCTG				
	TACC					
630	Hs271m21	CTCTCATCAGCTTTAACCCCTGGCCCTTTACTCTCTGTCCTTTAGCCAGGGGATCTG				
	TACC	6090 6100 6110 6120 6130 61				
40		640	650	660	670	680
690	Pagapr2.Dna	TGTCCCCACTCCCACCCTCTAGTGCCCCATCCCTCTTCCTCTGTCCCCAGCCTGCC				
	CACA					
690	Hs271m21	TGTCCCCACTCCCACCCTCTAGTGCCCCATCCCTCTTCCTCTGTCCCCAGCCTGCC				
	CACA	6150 6160 6170 6180 6190 62				
00		700	710	720	730	740
750	Pagapr2.Dna	GACCACGCCCTACTCTCCCCTTCCTCCCCTGGGGAGCCTGCCTTTTCCTCTTTCC				
	CACC					
750	Hs271m21	GACCACGCCCTACTCTCCCCTTCCTCCCCTGGGGAGCCTGCCTTTTCCTCTTTCC				
	CACC	6210 6220 6230 6240 6250 62				
60		760	770	780	790	800
810	Pagapr2.Dna	ATTCCTCTCTGTATGCCTCCCCGACTCACCCCTTAGGTTGCCAGATCATAACCCG				
	CCCT					
810	Hs271m21	ATTCCTCTCTGTATGCCTCCCCGACTCACCCCTTAGGTTGCCAGATCATAACCCG				
	CCCT	6270 6280 6290 6300 6310 63				
20		820	830	840	850	860

Namnlös

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870
Pagapr2.Dna  GGAAGGGGGGCATCAGGTACCGGGGCCTGACTCGGGACCAGGTGAAGGCTATCAAC
TTCC
|||||
Hs271m21     GGAAGGGGGGCATCAGGTACCGGGGCCTGACTCGGGACCAGGTGAAGGCTATCAAC
TTCC
                6330      6340      6350      6360      6370      63
80
                880      890      900      910      920
930
Pagapr2.Dna  TGCCAGTGGACTATGAGATTGAGTATGTGTGCCGGGGGGAGCGCGAGGTGGTGGGG
CCCA
|||||
Hs271m21     TGCCAGTGGACTATGAGATTGAGTATGTGTGCCGGGGGGAGCGCGAGGTGGTGGGG
CCCA
                6390      6400      6410      6420      6430      64
40
                940      950      960      970      980
990
Pagapr2.Dna  AGGTCCGCAAGTGCCTGGCCAACGGCTCCTGGACAGATATGGACACACCCAGCCGC
TGTG
|||||
Hs271m21     AGGTCCGCAAGTGCCTGGCCAACGGCTCCTGGACAGATATGGACACACCCAGCCGC
TGTG
                6450      6460      6470      6480      6490      65
00
                1000     1010     1020     1030     1040
1050
Pagapr2.Dna  GTGAGTAGCCTCGGAAGCCCCCTCCCCTCTTCAAGACTATTCCTTTTCCTGCCGCAA
ACTT
|||||
Hs271m21     GTGAGTAGCCTCGGAAGCCCCCTCCCCTCTTCAAGACTATTCCTTTTCCTGCCGCAA
ACTT
                6510     6520     6530     6540     6550     65
60
                1060     1070     1080     1090     1100
1110
Pagapr2.Dna  AGCATTACTGCTTGCAAGTCAGCACTTTAAATCCAGTATACCAAATTCACAAATA

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Namnlös

Hs271m21
ACCA
60
6810 6820 6830 6840 6850 68

1410
1360 1370 1380 1390 1400

Pagapr2.Dna
AAGC
TATGCCCAAGAAACAAAAGCCAGTTTAATATTAATAGAAGCCAACCTATAATAAGAA

|||||
Hs271m21
AAGC
20
6870 6880 6890 6900 6910 69

1470
1420 1430 1440 1450 1460

Pagapr2.Dna
CGCC
AAATCTGATTGTGCATCCAAAGTTATATACATCTACATATTTCAAAGCCAGAGAAC

|||||
Hs271m21
CGCC
80
6930 6940 6950 6960 6970 69

1530
1480 1490 1500 1510 1520

Pagapr2.Dna
TTCC
CACTGTAGCTGACTTTGAAGAGATCCCATTTTGTGTGCTTATAGCCCCATCTTGGG

|||||
Hs271m21
TTCC
40
6990 7000 7010 7020 7030 70

1590
1540 1550 1560 1570 1580

Pagapr2.Dna
GAGG
TAAAATGGTAATTTTTTTTTTCTTTTGGGAATGTGTGGATGCTTGCACAGGTAAGG

|||||
Hs271m21
GAGG
TAAAATGGTAATTTTTTTTTTCTTTTGGGAATGTGTGGATGCTTGCACAGGTAAGG

	Namnlös					
	7050	7060	7070	7080	7090	71
00						
	1600	1610	1620	1630	1640	
1650						
Pagapr2.Dna	ATTGGAAGATAGGTAGGCAAATCCTTTTCACATGTGATTTTCTTTAGAGCAGGATG					
CTTG						
Hs271m21	ATTGGAAGATAGGTAGGCAAATCCTTTTCACATGTGATTTTCTTTAGAGCAGGATG					
CTTG						
	7110	7120	7130	7140	7150	71
60						
	1660	1670	1680	1690	1700	
1710						
Pagapr2.Dna	TGGACCCAAACCTGCACCTGAGTCCCCTGCTCTTTAAAGGGAAAGAGCCTTCTTCA					
ACTC						
Hs271m21	TGGACCCAAACCTGCACCTGAGTCCCCTGCTCTTTAAAGGGAAAGAGCCTTCTTCA					
ACTC						
	7170	7180	7190	7200	7210	72
20						
	1720	1730	1740	1750	1760	
1770						
Pagapr2.Dna	GCCTCTCTTCTTATTTTCCTATCTCTCCACAGTCCGAATCTGCTCCAAGTCTTATT					
TGAC						
Hs271m21	GCCTCTCTTCTTATTTTCCTATCTCTCCACAGTCCGAATCTGCTCCAAGTCTTATT					
TGAC						
	7230	7240	7250	7260	7270	72
80						
	1780	1790	1800	1810	1820	
1830						
Pagapr2.Dna	CCTGGAAAATGGGAAGGTTTTCTGACGGGTGGGGACCTCCCAGCTCTGGACGGAG					
CCCG						
Hs271m21	CCTGGAAAATGGGAAGGTTTTCTGACGGGTGGGGACCTCCCAGCTCTGGACGGAG					
CCCG						
	7290	7300	7310	7320	7330	73
40						

	Namnlös					
	1840	1850	1860	1870	1880	
1890						
Pagapr2.Dna	GGTGGATTTCGGGTGTGACCCCGACTTCCATCTGGTGGGCAGCTCCCGGAGCATCT					
GTAG						
Hs271m21	GGTGGATTTCGGGTGTGACCCCGACTTCCATCTGGTGGGCAGCTCCCGGAGCATCT					
GTAG	7350 7360 7370 7380 7390 74					
00						
	1900	1910	1920	1930	1940	
1950						
Pagapr2.Dna	TCAGGGCCAGTGGAGCACCCCCAAGCCCCACTGCCAGGGTGAGGGGAACAGCTGCC					
TGCA						
Hs271m21	TCAGGGCCAGTGGAGCACCCCCAAGCCCCACTGCCAGGGTGAGGGGAACAGCTGCC					
TGCA	7410 7420 7430 7440 7450 74					
60						
	1960	1970	1980	1990	2000	
2010						
Pagapr2.Dna	TGCAGCTGATGAGGACGCTTGTGTGAGGATGGGAGTGGGGTGGGAATGGATAATGG					
GAAA						
Hs271m21	TGCAGCTGATGAGGACGCTTGTGTGAGGATGGGAGTGGGGTGGGAATGGATAATGG					
GAAA	7470 7480 7490 7500 7510 75					
20						
	2020	2030	2040	2050	2060	
2070						
Pagapr2.Dna	GAATGGAGAGCTATAAAAATGTGGGGGAGGACACTGGAAAGGGGAGATGAAAGTCC					
CTTT						
Hs271m21	GAATGGAGAGCTATAAAAATGTGGGGGAGGACACTGGAAAGGGGAGATGAAAGTCC					
CTTT	7530 7540 7550 7560 7570 75					
80						
	2080	2090	2100	2110	2120	
2130						
Pagapr2.Dna	TTCCTCCATCACCTGCCTCAAACCTCCTCTTGCAGTCCCCGGTATCCTCTGTAGGT					

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TGGG		
Hs271m21	TTCCTCCATCACCTGCCTCAAACCTCCTCTTGCAGTCCCCGGTATCCTCTGTAGGT	
TGGG		
	7590 7600 7610 7620 7630 76	
40		
	2140 2150 2160 2170 2180	
2190		
Pagapr2.Dna	GGCTTCCTTCCTTTACCTTTTAAAAAAATCTTCCTGCTCCCGATTCTTAGACCTCA	
CGTT		
Hs271m21	GGCTTCCTTCCTTTACCTTTTAAAAAAATCTTCCTGCTCCCGATTCTTAGACCTCA	
CGTT		
	7650 7660 7670 7680 7690 77	
00		
	2200 2210 2220 2230 2240	
2250		
Pagapr2.Dna	TTCTCTTTTCCTTTATGAATCTCACCTCTCTCACCTTCTTCAGGTTTAAATACTCC	
AATT		
Hs271m21	TTCTCTTTTCCTTTATGAATCTCACCTCTCTCACCTTCTTCAGGTTTAAATACTCC	
AATT		
	7710 7720 7730 7740 7750 77	
60		
	2260 2270 2280 2290 2300	
2310		
Pagapr2.Dna	TTCCCTTTCTCTAAACTTAGAAATTTCCATGCATCACCTCTTCTAGAATTCATCC	
CTCA		
Hs271m21	TTCCCTTTCTCTAAACTTAGAAATTTCCATGCATCACCTCTTCTAGAATTCATCC	
CTCA		
	7770 7780 7790 7800 7810 78	
20		
	2320 2330 2340 2350 2360	
2370		
Pagapr2.Dna	CCATTCCTTATATAATTGATTTATTGTAAAGACTCAGAAATAAATCAAACATTCTA	
CTAA		

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Hs271m21	CCATTCCTTATATAATTGATTTATTGTAAAGACTCAGAAATAAATCAAACATTCTA					
CTAA						
		7830	7840	7850	7860	7870
80						
		2380	2390	2400	2410	2420
2430						
Pagapr2.Dna	GAAAAATTGAGAAGGGGAGCTCTGGGGGTGGAAACATATTAGGGTAAAAGACTTAA					
AATT						
Hs271m21	GAAAAATTGAGAAGGGGAGCTCTGGGGGTGGAAACATATTAGGGTAAAAGACTTAA					
AATT						
		7890	7900	7910	7920	7930
40						
		2440	2450	2460	2470	2480
2490						
Pagapr2.Dna	GGAGGCAGCATTATCAGAAGATGAAGAACAACCTCAGGGATGGGGTGGGAAGAAGAC					
AGGT						
Hs271m21	GGAGGCAGCATTATCAGAAGATGAAGAACAACCTCAGGGATGGGGTGGGAAGAAGAC					
AGGT						
		7950	7960	7970	7980	7990
00						
		2500	2510	2520	2530	2540
2550						
Pagapr2.Dna	CCTTTTCTGKACTTCCTAGACAACCTCCATTATTCCCTAAGGGAATCAGTGTTGTG					
TCTG						
Hs271m21	CCTTTTCTGTACTTCCTAGACAACCTCCATTATTCCCTAAGGGAATCAGTGTTGTG					
TCTG						
		8010	8020	8030	8040	8050
60						
		2560	2570	2580	2590	2600
2610						
Pagapr2.Dna	TCTACYTTTTTTTTTTTTTTTTTTTGCCACGTAATTTTACAAACTCTCCCTTTTCTAG					
GCAC						
Hs271m21	TCTACTTTTTTTTTTTTTTTTTTTTGCCACGTAATTTTACAAACTCTCCCTTTTCTAG					
GCAC						

	Namnlös					
	8070	8080	8090	8100	8110	81
20						
	2620	2630	2640	2650	2660	
2670						
Pagapr2.Dna	CCGAACTCTCTGCCATCTTCTCTCCTGGGATGCAGTCATCCCATTGTATGCCTCA					
TACT						
Hs271m21	CCGAACTCTCTGCCATCTTCTCTCCTGGGATGCAGTCATCCCATTGTATGCCTCA					
TACT						
	8130	8140	8150	8160	8170	81
80						
	2680	2690	2700	2710	2720	
2730						
Pagapr2.Dna	TCCTCTACCCTGGTAGATTCTTTCAAGATCCTTGGGCTTTACTTTCCTCACATAAC					
TCAG						
Hs271m21	TCCTCTACCCTGGTAGATTCTTTCAAGATCCTTGGGCTTTACTTTCCTCACATAAC					
TCAG						
	8190	8200	8210	8220	8230	82
40						
	2740	2750	2760	2770	2780	
2790						
Pagapr2.Dna	TTATTCTGCTTCTAGTTTACCATTTTATTCTGGAAATTGAGAGTCCCATCCAGGGG					
TGGA						
Hs271m21	TTATTCTGCTTCTAGTTTACCATTTTATTCTGGAAATTGAGAGTCCCATCCAGGGG					
TGGA						
	8250	8260	8270	8280	8290	83
00						
	2800	2810	2820	2830	2840	
2850						
Pagapr2.Dna	CTTATGACACTACTGAACTTAGACTTCAAGGTTCTTCACCTACAGGGCCCTCTTC					
CTGT						
Hs271m21	CTTATGACACTACTGAACTTAGACTTCAAGGTTCTTCACCTACAGGGCCCTCTTC					
CTGT						
	8310	8320	8330	8340	8350	83
60						

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	2860	2870	2880	2890	2900
2910					
Pagapr2.Dna	GCTCTAATAATATAGAGGGCTCGATGGATATGTGTTTCATATGGTAACAGGCTTTTG				
TAAA					
Hs271m21	GCTCTAATAATATAGAGGGCTCGATGGATATGTGTTTCATATGGTAACAGGCTTTTG				
TAAA					
	8370	8380	8390	8400	8410
20					84
	2920	2930	2940	2950	2960
2970					
Pagapr2.Dna	AATTGCAGAAATAAGATTTTAACAGCAATTGCTTAAAGCCAATTGTATGTGTAATT				
TTTT					
Hs271m21	AATTGCAGAAATAAGATTTTAACAGCAATTGCTTAAAGCCAATTGTATGTGTAATT				
TTTT					
	8430	8440	8450	8460	8470
80					84
	2980	2990	3000	3010	3020
3030					
Pagapr2.Dna	TTCTTAAAGACTCCCAATTTTGTAATATTCAGGCACCACAGAACCAAGATCTGCCC				
CAAA					
Hs271m21	TTCTTAAAGACTCCCAATTTTGTAATATTCAGGCACCACAGAACCAAGATCTGCCC				
CAAA					
	8490	8500	8510	8520	8530
40					85
	3040	3050	3060	3070	3080
3090					
Pagapr2.Dna	CTTAGCTATTGGCATTCCCGTCTCAAATTCTGTTGTCCTATGAAAAATCGAAGAAG				
AAAA					
Hs271m21	CTTAGCTATTGGCATTCCCGTCTCAAATTCTGTTGTCCTATGAAAAATCGAAGAAG				
AAAA					
	8550	8560	8570	8580	8590
00					86
	3100	3110	3120	3130	3140
3150					

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Pagapr2.Dna	TAAGTCCTGACCCCCTTACCCCCAGACCCACCTTGTTCTTATCCCCAGGCACCCTC
CCCT	
Hs271m21	TAAGTCCTGACCCCCTTACCCCCAGACCCACCTTGTTCTTATCCCCAGGCACCCTC
CCCT	
60	8610 8620 8630 8640 8650 86
3210	3160 3170 3180 3190 3200
Pagapr2.Dna	CAGAAACGCAGGCTTCTGCTCTCCCCGGTCTTCAGCATGGACAGGTGTGGGAGGGG
GCTG	
Hs271m21	CAGAAACGCAGGCTTCTGCTCTCCCCGGTCTTCAGCATGGACAGGTGTGGGAGGGG
GCTG	
20	8670 8680 8690 8700 8710 87
3270	3220 3230 3240 3250 3260
Pagapr2.Dna	GGGATCAGGCCAGGGAAGCTGGGCGCCAGTGGTAACTCTTCTCTGATCCCCGTCTT
TCCT	
Hs271m21	GGGATCAGGCCAGGGAAGCTGGGCGCCAGTGGTAACTCTTCTCTGATCCCCGTCTT
TCCT	
80	8730 8740 8750 8760 8770 87
3330	3280 3290 3300 3310 3320
Pagapr2.Dna	GCTGCCAGTGAATCGAACGCCACACTCAGGTGAGATGAGAAACCCTTACCGCGCGC
ACTG	
Hs271m21	GCTGCCAGTGAATCGAACGCCACACTCAGGTGAGATGAGAAACCCTTACCGCGCGC
ACTG	
40	8790 8800 8810 8820 8830 88
3390	3340 3350 3360 3370 3380
Pagapr2.Dna	CAATGCCCTCCCCTTCACTCTGCACCCTCCACCCCCCTGAAATTCTGCCCTTAGGC
TACG	

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Hs271m21	CAATGCCCTCCCCTTCACTCTGCACCCTCCACCCCCCTGAAATTCTGCCCTTAGGC					
TACG						
		8850	8860	8870	8880	8890
00						89
		3400	3410	3420	3430	3440
3450						
Pagapr2.Dna	GGGCGTCGTCCTTTCGCACCTTCCCCAACCCACCCCAGTTTGCGGCCACCCCCTTC					
CCTC						
Hs271m21	GGGCGTCGTCCTTTCGCACCTTCCCCAACCCACCCCAGTTTGCGGCCACCCCCTTC					
CCTC						
		8910	8920	8930	8940	8950
60						89
		3460	3470	3480	3490	3500
3510						
Pagapr2.Dna	CCTACCTGTTTCCTGCCTCCAGTCCCGGTTTCCACGAGGCTGCGGTCTCTCCTTG					
TCCC						
Hs271m21	CCTACCTGTTTCCTGCCTCCAGTCCCGGTTTCCACGAGGCTGCGGTCTCTCCTTG					
TCCC						
		8970	8980	8990	9000	9010
20						90
		3520	3530	3540	3550	3560
3570						
Pagapr2.Dna	TGCTTGGCTACACTTCCCTGGGCTCCACCTCCTCCCAGACTGAGCCTCGCCGGTGT					
CAGG						
Hs271m21	TGCTTGGCTACACTTCCCTGGGCTCCACCTCCTCCCAGACTGAGCCTCGCCGGTGT					
CAGG						
		9030	9040	9050	9060	9070
80						90
		3580	3590	3600	3610	3620
3630						
Pagapr2.Dna	CAGAGCCCAGCAGARGGCGGCAGGGTGCTGGGAGACCCTGAGCTCCCACCACGTTT					
TCCC						
Hs271m21	CAGAGCCCAGCAGAGGGCGGCAGGGTGCTGGGAGACCCTGAGCTCCCACCACGTTT					
TCCC						

	Namnlös					
	9090	9100	9110	9120	9130	91
40						
	3640	3650	3660	3670	3680	
3690						
Pagapr2.Dna	CTGTGGGGTTCCTTGCGACCTTCGCTGGAACCTTTTCCAGCCTGCTGCCTCCTAGG					
ATTT						
Hs271m21	CTGTGGGGTTCCTTGCGACCTTCGCTGGAACCTTTTCCAGCCTGCTGCCTCCTAGG					
ATTT						
	9150	9160	9170	9180	9190	92
00						
	3700	3710	3720	3730	3740	
3750						
Pagapr2.Dna	CACCTAATGGACTTTCTCAGCCTGTCCCACCCATCCCAACCCTGGCCAGGCCTCTC					
GCGC						
Hs271m21	CACCTAATGGACTTTCTCAGCCTGTCCCACCCATCCCAACCCTGGCCAGGCCTCTC					
GCGC						
	9210	9220	9230	9240	9250	92
60						
	3760	3770	3780	3790	3800	
3810						
Pagapr2.Dna	TCTTCCCCACATCTTTTCCTTCCGTGTACCCCTTCCCTCGTCTTTTCTCAATTCCA					
TGTC						
Hs271m21	TCTTCCCCACATCTTTTCCTTCCGTGTACCCCTTCCCTCGTCTTTTCTCAATTCCA					
TGTC						
	9270	9280	9290	9300	9310	93
20						
	3820	3830	3840	3850	3860	
3870						
Pagapr2.Dna	CTGTCTCCCTTTCTTAGGCTTCTGTCTACCCAGCCCCAGGCTCCCTTCCACGACCC					
CACC						
Hs271m21	CTGTCTCCCTTTCTTAGGCTTCTGTCTACCCAGCCCCAGGCTCCCTTCCACGACCC					
CACC						
	9330	9340	9350	9360	9370	93
80						

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		3880	3890	3900	3910	3920
3930						
Pagapr2.Dna	ACTCCCTCAAACCAGCCTCCCTTCCGTACCCAACTCGTTCCCTCCAAAACCGTTTC					
CTCT						
Hs271m21	ACTCCCTCAAACCAGCCTCCCTTCCGTACCCAACTCGTTCCCTCCAAAACCGTTTC					
CTCT						
		9390	9400	9410	9420	9430
40						
		3940	3950	3960	3970	3980
3990						
Pagapr2.Dna	CCCCACATCCTCAGTGCTTCACTGTATCGACTCATACTCCCACTTCAGACCTCAG					
GCGC						
Hs271m21	CCCCACATCCTCAGTGCTTCACTGTATCGACTCATACTCCCACTTCAGACCTCAG					
GCGC						
		9450	9460	9470	9480	9490
00						
		4000	4010	4020	4030	4040
4050						
Pagapr2.Dna	CAGCCCCGTTTCTCTCCCGTCCCACTCGCATCCTTCCCTTCCTACCCTGGTTCCTC					
CGTG						
Hs271m21	CAGCCCCGTTTCTCTCCCGTCCCACTCGCATCCTTCCCTTCCTACCCTGGTTCCTC					
CGTG						
		9510	9520	9530	9540	9550
60						
		4060	4070	4080	4090	4100
4110						
Pagapr2.Dna	CTTCAGCCTCCCGCGGCTCCCTCCGCCCACCCCGCCCTCCTGGCACGCCCCGTCCC					
CATT						
Hs271m21	CTTCAGCCTCCCGCGGCTCCCTCCGCCCACCCCGCCCTCCTGGCACGCCCCGTCCC					
CATT						
		9570	9580	9590	9600	9610
20						
		4120	4130	4140	4150	4160
4170						

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Pagapr2.Dna TCTCCTCCCCCTCGGGTCCCCTTAAGTGAGATCCCTCCCTTCCTCTTTCGTTCCCTTT
CCTC

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Hs271m21 TCTCCTCCCCCTCGGGTCCCCTTAAGTGAGATCCCTCCCTTCCTCTTTCGTTCCCTTT
CCTC

9630 9640 9650 9660 9670 96

80

4180 4190 4200 4210 4220

4230

Pagapr2.Dna CTCGAGGTTGCATCCCCCTCCCCTCCCCGCCCCCTCCGACTGTCGCTCCCACCTCG
GCGC

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Hs271m21 CTCGAGGTTGCATCCCCCTCCCCTCCCCGCCCCCTCCGACTGTCGCTCCCACCTCG
GCGC

9690 9700 9710 9720 9730 97

40

4240 4250 4260 4270 4280

4290

Pagapr2.Dna TCGCTTCCCTCCCCGCCCCCTTCCTGCCTCCCCAGCTCCCGCCCCGCCCCCCCCACCC
CCCG

||||

Hs271m21 TCGCTTCCCTCCCCGCCCCCTTCCTGCCTCCCCAGCTCCCGCCCCGCCCCCCCCACCC
CCCG

9750 9760 9770 9780 9790 98

00

4300 4310 4320 4330 4340

4350

Pagapr2.Dna CTGCCGCGCGCCGCCCCGTGACGTCAGAGCCCCCTCCCAGCCCCACATCTCCCTCCT
GCTC

||||

Hs271m21 CTGCCGCGCGCCGCCCCGTGACGTCAGAGCCCCCTCCCAGCCCCACATCTCCCTCCT
GCTC

9810 9820 9830 9840 9850 98

60

4360 4370 4380 4390 4400

4410

Pagapr2.Dna CTCCTCCTCCCCTCCGTCGGTCAGTCAGTCCGCGAGGAGAGTCCGCGGTGGCGGCG
ACGG

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Namnlös

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Hs271m21 CTCCTCCTCCCCTCCGTCGGTCAGTCAGTCCGCGAGGAGAGTCCGCGGTGGCGGGCG
ACGG

9870 9880 9890 9900 9910 99

20

4420 4430 4440 4450 4460

4470
Pagapr2.Dna TGGCGAGAGCCGCGGGGGCCGTAGGAAGCCAACCTTCCCTGCTTCTCCGGGGCCCT
CGCC

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||||
Hs271m21 TGGCGAGAGCCGCGGGGGCCGTAGGAAGCCAACCTTCCCTGCTTCTCCGGGGCCCT
CGCC

9930 9940 9950 9960 9970 99

80

4480 4490 4500 4510 4520

4530
Pagapr2.Dna CCCTCCTCCCCACAAAATCAGGGATGGAGGCGCCTCCCCGGCACCCTCTTAGCAGC
CCTC

|||||

||||
Hs271m21 CCCTCCTCCCCACAAAATCAGGGATGGAGGCGCCTCCCCGGCACCCTCTTAGCAGC
CCTC

9990 10000 10010 10020 10030 100

40

4540 4550 4560 4570 4580

4590
Pagapr2.Dna CCCGGGAAAAGTGTCCCCCCTGAGCTCCTAACGCTCCCCAACAGCTACCCCTGCCC
CCCA

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||||
Hs271m21 CCCAGGAAAAGTGTCCCCCCTGAGCTCCTAACGCTCCCCAACAGCTACCCCTGCCC
CCCA

10050 10060 10070 10080 10090 101

00

Pagapr2.Dna CGCC

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Hs271m21 CGCCATGGGGCCCCGGGGCCCCCTTTTGCCCGGGTGGGGTGGCCACTGCCGCTTCTGG

	Namnlös					
TTGT						
60	10110	10120	10130	10140	10150	101